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# A COMPUTERIZED BIBLIOGRAPHY OF SELECTED SAGEBRUSH SPECIES (GENUS *ARTEMISIA*) IN WESTERN NORTH AMERICA

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## RESEARCH SUMMARY

This unannotated bibliography of sagebrush (primarily in the *Tridentatae* section of *Artemisia*) covers the period from the late 1800's to 1980. It deals with plant ecology and management aspects of grazing, control, revegetation, wildlife, and watershed. The sagebrush species from the section *Tridentatae* covered in the index are *A. arbuscula*, *A. bigelovii*, *A. cana*, *A. longiloba*, *A. nova*, *A. pygmaea*, *A. rigida*, *A. spinescens*, *A. tridentata*, and *A. tripartita*. The subspecies of *A. tridentata*—*A. t. tridentata*, *A. t. wyomingensis*, and *A. t. vaseyana*—are separated where known. Other species included are *A. frigida*, *A. campestris*, *A. filifolia*, *A. ludoviciana*, *A. dracunculoides*, and *A. longifolia*.

This bibliography is also available on a computer database and can be searched by selected key or title words through WESTFORNET, an information service operated by the Forest Service.

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# A COMPUTERIZED BIBLIOGRAPHY OF SELECTED SAGEBRUSH SPECIES (GENUS *ARTEMISIA*) IN WESTERN NORTH AMERICA

compiled by

**Roy O. Harniss  
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## INTRODUCTION

Sagebrush is an important shrub in western North America. Shrubby *Artemisia* species are associated with over 200 million acres in the western United States alone. Management and research decisions often require a review of the literature to obtain information about the expected effect of certain management practices on the ecology and biology of sagebrush.

We have attempted to compile and index the literature on sagebrush from the 1800's to 1980. Biological Abstracts, Herbage Abstracts, Dissertation Abstracts, and the bibliographies of papers were used to compile the citations. Articles directly concerning sagebrush or sagebrush-dominated communities are the core of the bibliography. We have included articles dealing with description, management, and research in communities where *Artemisia* is not dominant but is an important component, and also articles dealing with secondary succession or manipulated vegetation following sagebrush removal. The effects of grazing on *Artemisia* and associated plants, and the effects of sagebrush on domestic and wild animals constitute a great number of the citations.

The primary emphasis of the bibliography is on the section *Tridentatae* of *Artemisia*. However, some *Artemisia* species are included because they occur with the species in this section or are an important component of the vegetation in western North America. Subspecies separation has been included where ecological difference has been demonstrated. The species and subspecies included from the section *Tridentatae* are:

<i>A. arbuscula</i>	(ARAR)	Low sagebrush
<i>A. bigelovii</i>	(ARBI)	Bigelow sagebrush
<i>A. cana</i>	(ARCA)	Silver sagebrush
<i>A. longiloba</i>	(ARLOB)	Alkali sagebrush
<i>A. nova</i>	(ARNO)	Black sagebrush
<i>A. pygmaea</i>	(ARPY)	Pigmy sagebrush
<i>A. rigida</i>	(ARRI)	Stiff sagebrush
<i>A. spinescens</i>	(ARSP)	Bud sagebrush
<i>A. tridentata</i>	(ARTR)	Big sagebrush
<i>A. tridentata</i>		Basin big
<i>tridentata</i>	(ARTRTR)	sagebrush

<i>A. tridentata</i>		Mountain big
<i>vaseyana</i>	(ARTRVA)	sagebrush
<i>A. tridentata</i>		Wyoming big
<i>wyomingensis</i>	(ARTRWY)	sagebrush
<i>A. tripartita</i>	(ARTRP)	Threetip sagebrush
Other species included are:		
<i>A. frigida</i>	(ARFR)	Fringed sagebrush
<i>A. campestris</i>	(ARCAM)	Common sagewort
<i>A. filifolia</i>	(ARFI)	Sand sagebrush
<i>A. ludoviciana</i>	(ARLU)	Louisiana sagewort
<i>A. dracunculoides</i>	(ARDR)	Falsetarragon sage- wort
<i>A. longifolia</i>	(ARLO)	Longleaf sagewort

Because of the proliferation of literature about *Artemisia*, we have used FAMULUS, a computerized personal documentation system designed by T. B. Yerke of the Forest Service to compile the bibliography. Computer searches using the keywords listed in the index and/or title can be requested by Forest Service employees through the WESTFORNET Librarian, Intermountain Forest and Range Experiment Station, Ogden, Utah. If desired, a tape or card deck of the bibliography can be made for others to use.

The index of keywords, compiled to assist in the use of the bibliography, is general and overlapping. Acronyms were used for the plant species and are generally the first two letters of the genus/species/subspecies name. These are given in the listing of plant species for the bibliography. Citations can be found by using species or subject matter alone, or in combination with other keywords. We did not read all the articles we have cited, and there will undoubtedly be errors, because we indexed from title only on many of the citations. Information on deletions or additions to the index or any additional references for the bibliography would be appreciated. The computer bibliography, updated periodically, will give land managers and researchers a working tool to assist them in making decisions about the sagebrush-grass ecosystem.

We appreciate the help of E. F. Schlatterer, A. A. Beetle, and T. Weaver in obtaining citations, and of J. A. Marshall, R. B. Campbell, and R. Hamilton in preparing this bibliography for the computer.

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